B135/B138 Product Support Guide

Introduction

Launch Date	3/2004
S/N Configuration	J79/J80
Product Code	B135/B138

Product Code	Gestetner	Lanier	Ricoh	Savin
B135 **B138**	**DSm635 / DSm645sp** **DSm645 / DSm645sp**	**LD135 / LD135 S/P** **LD145 / LD145 S/P**	**Aficio 2035e / 2035eSP** **Aficio 2045e / 2045eSP**	**4035E / 4035Esp** **4045E / 4045Esp**

Training Information

Technicians with prior Digital Technology certification will be automatically certified on the B135/B138 upon receipt and review of the B135/B138 Documentation Update package.

Training Prerequisites

The B135/B138 has been added to the current Digital Technology Class. Technicians who are not currently certified can be trained by attending the Digital Technology Class.

Documentation

Description	EDP Code
B135/B138 Update Training Package	001902MIU
Service Manual	001903MIU
Parts Catalog	001904MIU

If you have any questions regarding this or any other training, please contact the Service Education and Development Division at (973) 882-5797.

Product Concept

The B135/B138 is the next generation in the 35/45cpm series. The series offers new Document Management Solutions not available on the current B079/B082 series machines. The Printer/Scanner Option is pre-installed on the "S/P' versions.

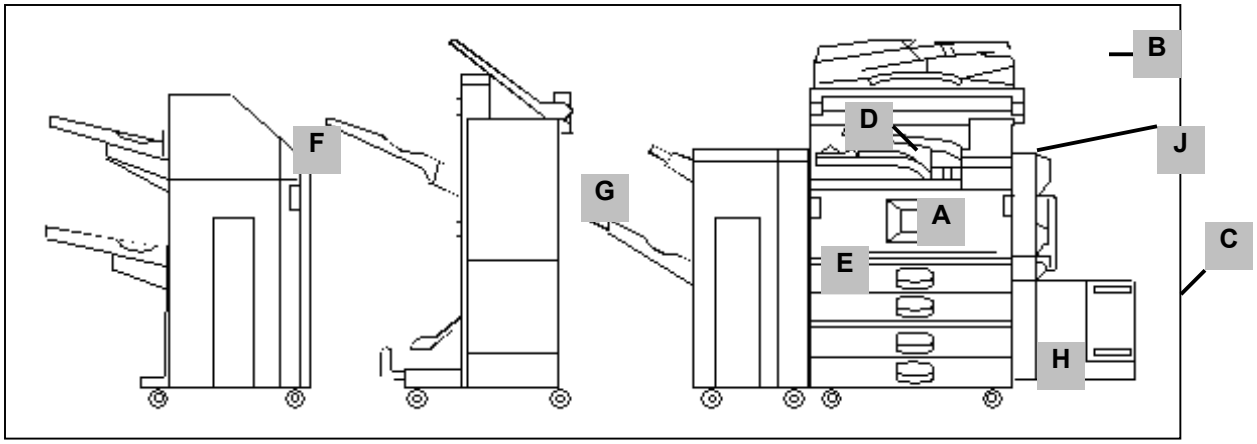
New Features / Options

- Embedded Scan to Email
- Scan to Folder
- Scan to FTP
- LDAP Support
- Paperless / Serverless Fax
- Internet Fax
- New web address book features
- Web Image Monitor

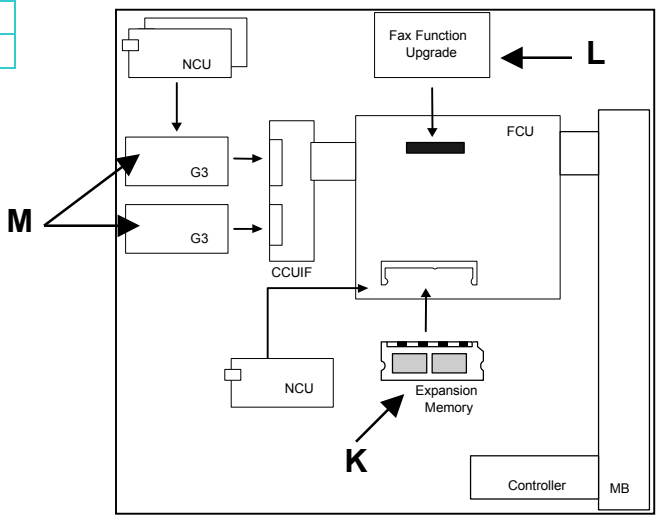
Copy Speed

B135 – 35cpm
B138 – 45cpm

Machine Configuration



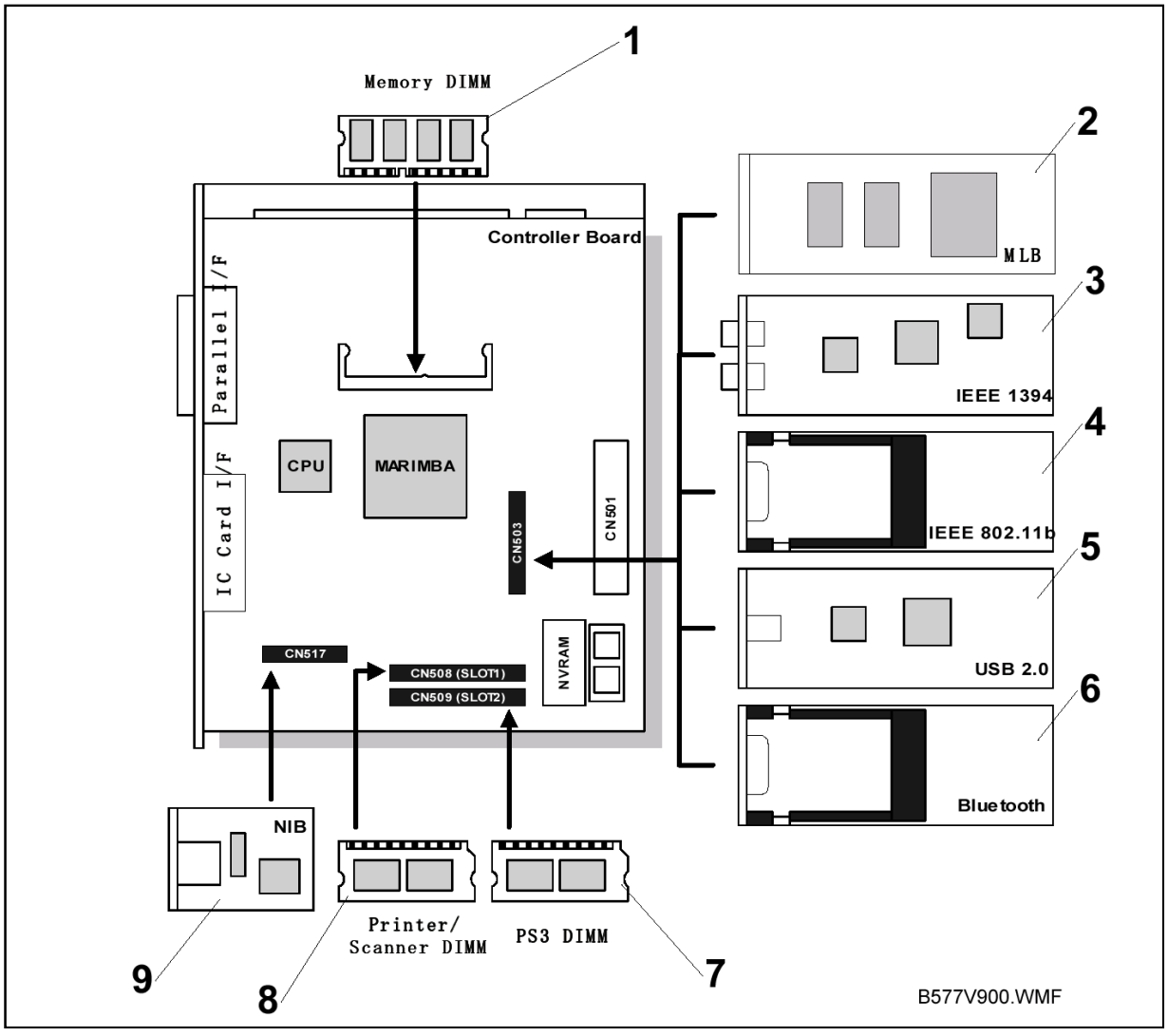
	Item	Product Code	Item
Copier	Mainframe	B135/B138	A
	DF76	B541	B
	LCT RT45	B543	C
	Bridge Unit Type 2045	B538	D
	1000 Sheet Finisher SR790	B408	E
	2 Tray Finisher SR880	B545	F
	Booklet Finisher SR890	B546	G
	Paper Tray Unit PS530	B542	H
	1 Bin Tray PT330	B544	J
Fax	Fax Option Type 2045e	B653	
	32M Feature Expander	-	K
	Function Upgrade Type 185	410284	L
	Option G3 lines (x 2)	B591	M



Machine Configuration (continued)

	Item	Product Code	Item	Common / Unique
*/***	128MB Memory Option	-	1	C (B079)
	File Format Converter Type A	B519	2	C (B089)
**	IEEE 1394	G336	3	C (B079)
**	IEEE 802.11b Wireless LAN	B515	4	C (B079)
**	USB 2.0	B525-01	5	C (B079)
**	Bluetooth	G354-04	6	C (B079)
	PostScript3	G354	7	C (B079)
	Printer / Scanner Option	B654	8	U
***	NIB	B525-03	9	C (B079)

* At least 128MB of additional memory is required for Printing/Scanning.
** Only 1 host interface card (Items – 3, 4, 5, 6) can be installed.
*** NIB and 128MB Memory is included with Printer / Scanner Option kit



Non Recommended Paper

- Paper for inkjet printers
- Thermal fax paper
- Art paper
- Aluminum foil
- Carbon paper
- Conductive paper
- Colored OHP transparencies
- Paper with perforated lines
- Hemmed-edge paper
- Bent, folded or creased paper
- Torn paper
- Slippery paper

Fax Option Features

- New features
  - Internet Fax
  - Forwarding of inbound faxes to E-mail
- 2 additional G3 Line Options are available, for a total of 3 G3 lines. A G4 option is not available.

Printer Option Features

Memory capacity	Standard -192MB (resident 64MB + optional* 128MB) - minimum for printing
Document Server	Standard; 20GB
Fonts	PCL; 35 intelli fonts, 10 true type fonts, 1 bitmap PS3; 136 Adobe type 1 fonts
Spool Printing	LPR, IPP, SMB
Supported Printer Language	Standard: RPCS, PCL6, PCL5e Optional: Adobe PostScript 3
NIB	Ethernet (10/100baseT)
IEEE 1394 interface	Option: 2 ports (6 pins) [SCSI print and IP over 1394]

Scanner Option Features

Optical resolution	600dpi, 256 shades of gray
Scan speed	ScanRouter 49ipm (200dpi, binary / LEF / MH) Twain: 36 ipm (200 dpi, binary / LEF / MH)
Scan area	Main scan: 297mm Sub Scan: 432mm
Compression Method	Binary: MH (default), MR, MMR Grayscale: JPEG
Network Topology	Ethernet 10/100baseTX IEEE 1394 over IP Wireless LAN (802.11b)
Protocol	TCP/IP
Memory Capacity	192MB
Web Status Monitor	Standard

Utility Software

Software	Description
Agfa Font Manager 2000 (Win9x, ME, NT 4.0,2K, XP)	• A font management utility with screen fonts for the printer.
Smart Device Monitor for Admin (Win9x, ME, NT 4.0,2K, XP)	• A printer management utility for network administrators. • Setup utilities are also available.
Smart Device Monitor for Client (Win9x, ME, NT 4.0,2K, XP)	• A printer management utility for client users. • A utility for peer-to-peer printing over a NetBEUI or a TCP/IP network. • A peer-to-peer print utility over a TCP/IP network. This provides parallel printing and recovery printing features.
Printer Utility for Mac	• This software provides several convenient functions for printing from Macintosh clients.
IEEE1394 Utility (Win2000)	• This utility solves problems with Windows 2000.
Desk Top Binder V2 Lite (Win9x, ME, NT 4.0,2K, XP)	• Desk Top Binder V2 Lite itself can be used as personal document management software and can manage both image data converted from paper documents and application files saved in each client's PC.

Total Counter Access

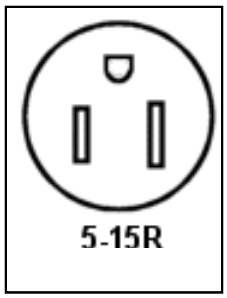
- User Tools / Counter → Counter
- User Tools / Counter → System Settings → Key Operator Tools →Display / Print Counter

Installation Requirements

- Temperature Range: 10° C to 32° C (50° F to 90° F)
- Humidity Range: 15% to 80% RH
- Ambient Illumination: Less than 1,500 lux (do not expose to direct sunlight)
- Ventilation: Room air should turn over at least 30 m³/hr/person
- Ambient Dust Less than 0.10 mg/m³ (2.7 x 10/6 oz/yd³)
- Avoid areas exposed to sudden temperature changes:
  - Areas directly exposed to cool air from an air conditioner
  - Areas directly exposed to heat from a heater
- Do not place machine where it will be exposed to corrosive gas or vapor. Some Blue Print machines use an ammonia based development process, which may produce a corrosive vapor.
- Do not install the machine at any location over 2,000m (6,500 ft.) above sea level.
- Place the machine on a strong and level base. Inclination on any side should be no more than 5mm (0.2")
- Do not place the machine where it may be subject to strong vibrations.
- Machine level Front to back: within 5mm (0.2") of level
  Right to left:: within 5mm (0.2") of level

Power Requirements

- Input voltage level: 120 V, 60Hz: More than 12.5 A
- Permissible voltage fluctuation: ±10%
- Do not place anything on power cord.
- The required wall outlet is a NEMA 5-15R (receptacle) →

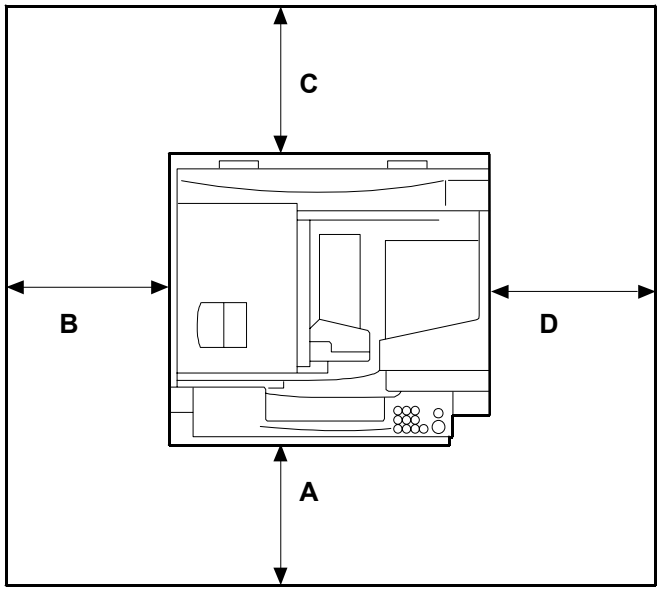


Installation Times

Unit	Installation Time (minutes)	Unit	Installation Time (minutes)
Mainframe	30	LCT	10
ARDF *	15	Fax Option	15
Paper Bank	10	Printer Scanner Option (including NIB)	15
1 Bin Tray	20	IEEE1394	5
2 Tray Finisher	15	USB 2.0	5
1000 Sheet Finisher	10	IEEE 802.11b	5
Booklet Finisher	15	Bluetooth	5
Bridge Unit	10	File Format Converter	10

*** ARDF is pre-installed on all machines except GSA machines.**

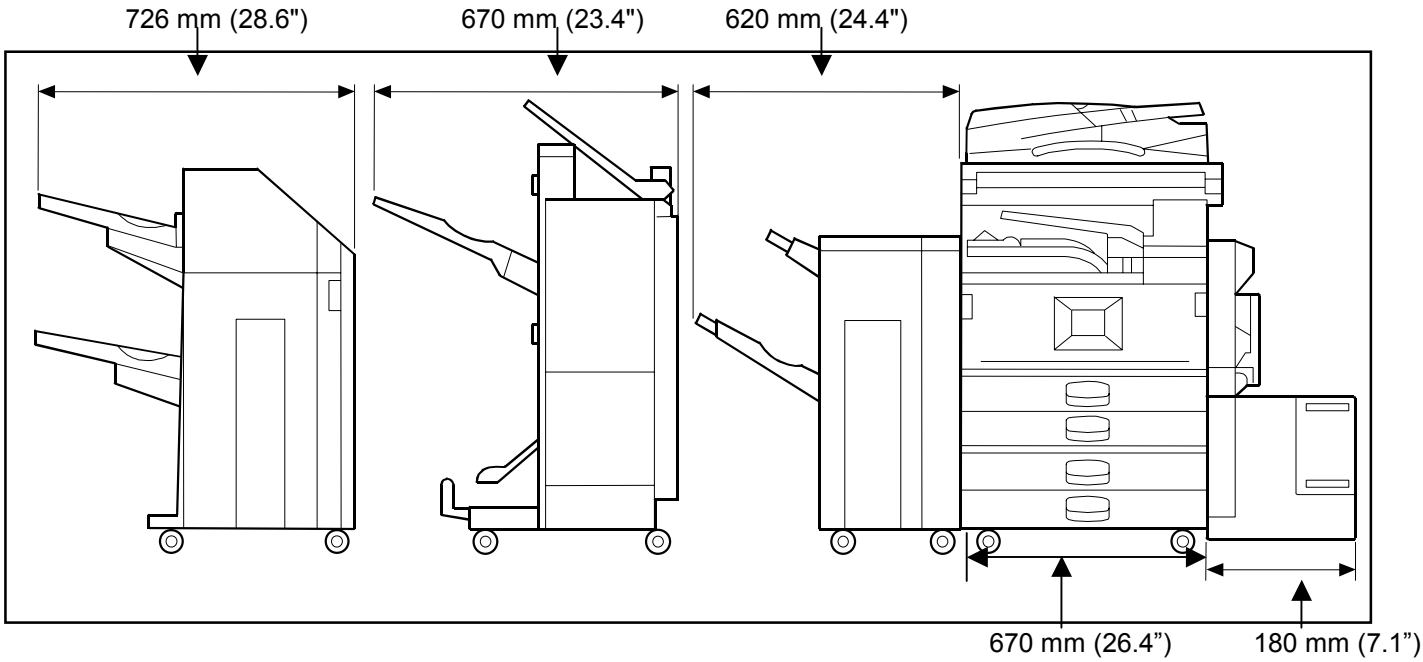
Machine Space Requirements



Dimensions (W x D x H):	26.3”x 25.6”x 28.3”
Weight:	Less than 174lbs

Machine must be level
Front to back: Within 5 mm (0.2") of level
Right to left: Within 5 mm (0.2") of level

A: Front: >75 cm (29.6")
B: Left: > 10 cm (4")
C: Rear: > 10 cm (4")
D: Right > 10 cm (4")



PM Table

Mainframe: B135/B138

PM Kit Part #: PMB008150K

Unique/Common
U: Unique for this model
C: Common with listed model

Part Number	Description	Q'ty/ Unit	PM Interval	Unique or Common
Around the drum				
AD027012	Charge Roller	1	150k	C (B079)
B1382329	Brush Roller – Cleaning	1	150k	C (B079)
AD025021	Pick-off Pawl	2	150k	C (B079)
B1382353	Cleaning Blade – First	1	150k	C (B079)
AD041105	Cleaning Blade – Second	1	150k	C (B079)
Development				
AA012102	Development Filter	1	150k	C (B079)
Paper Feed				
AF030049	Pick-up Roller (Paper tray)	2	150k	C (B079)
AF031049	Feed Roller (Paper tray)	2	150k	C (B079)
AF032049	Separation Roller (Paper tray)	2	150k	C (B079)
AF030049	Pick-up Roller (By-pass)	1	150k	C (B079)
AF031046	Feed Roller (By-pass)	1	150k	C (B079)
AF032046	Separation Roller (By-pass)	1	150k	C (B079)
B1382603	Registration Roller Cleaner	1	300k	C (B079)
Transfer Belt Unit				
A2323880	Transfer Belt	1	150k	C (B079)
A2323830	Cleaning Blade - Transfer Belt	1	150k	C (B079)
Fusing Unit				
AE011071	Hot Roller	1	150k	C (B079)
AE020123	Pressure Roller	1	150k	C (B079)
AE044056	Hot Roller Stripper	7	300k	C (B079)
AW100085	Fusing Thermistor – Center	1	150k	C (B079)
AW100086	Fusing Thermistor – Edge	1	150k	C (B079)
AE042054	Cleaning Roller	1	150k	C (B079)

ADF: B541

Part Number	Description	Q'ty /Unit	PM Interval (Originals)	Unique or Common
B3512222	Paper Feed Belt	1	80K	C (B079)
B3512126	Pick-up Roller	1	80K	C (B079)
A8592241	Reverse Roller	1	80K	C (B079)

Paper Bank: B542

Part Number	Description	Q'ty /Unit	PM Interval	Unique or Common
AF030049	Pick-up Roller	2	150k	C (G060)
AF031049	Feed Roller	2	150k	C (G060)
AF032049	Separation Roller	2	150k	C (G060)

LCT: B543

Part Number	Description	Q'ty /Unit	PM Interval	Unique or Common
AF031064	Feed Roller	1	150k	U
AF032050	Separation Roller	1	150k	C (B065)
AF030050	Pick-up Roller	1	150k	C (B065)

Contact Information

Name	Contact
Technical Services Call Center (Hotline)	Ricoh: 1-800-537-4264 Savin/Gestetner: 1-800-291-6044
Application Help Desk (Software Issues)	Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU Savin Phone Card: 2 Call - 12992, 5 Call - 12993 Gestetner Phone Card: 2 Call - 12994, 5 Call - 12995
National Reclamation Center	(800) 557-4264 / http://www.nrc-usa.com
Technology Solutions Center Web Site	http://tsc.ricohcorp.com
Ricoh Web Site	http://http://www.ricoh-usa.com/
Savin iLINC Web Site	http://w3.savin.com
Gestetner ILINE Web Site	http://W3.gestetnerusa.com
Headquarter Web Sites	Ricoh Corporation: http://www.ricoh-usa.com Savin Corporation: http://www.savin.com Gestetner Corporation: http://www.gestetnerusa.com/
Fax On Demand	(973) 808-3590
Material Safety Data Sheets	1-800-336-MSDS (6737)
Eastern Training Center	(973) 808-7646
Western Training Center	(714) 566-3692
Lanier Education Center	(678) 824-3000

Special Tools

Unique or Common:
U: Unique for this model
C: Common with listed model

Item	Part Number	Description	Q'ty	Unique or Common
1	A0069104	Scanner Positioning Pin (4pcs/set)	1	C (B079)
2	A2929500	Test Chart – S5S (10 pcs/set)	1	C (General)
3	A0299387	Digital Multimeter – FLUKE 87	1	C (General)
4	A2309003	Adjustment Cam – Laser Unit	1	C (B079)
5	A2309004	Positioning Pin – Laser Unit	1	C (B079)
6	N8036701	Flash Memory Card – 4MB	1	C (General)
7	A2309354	Memory Card Explorer Kit	1	C (General)
8	A2579300	Grease Barrierta – S552R	1	C (General)
9	52039502	Silicon Grease G-501	1	C (General)
10	G0219350	Loop Back Connector	1	C (General)

Product Order Numbers

Product Code	EDP Code	Lanier ID	Item	Model Name
B135	411554	479-1488	35 CPM Mainframe	RICOH Aficio 2035e Savin 4035e Gestetner DSm635 Lanier LD135
B138	411556	479-1501	45 CPM Mainframe	RICOH Aficio 2045e Savin 4045e Gestetner DSm645 Lanier LD145
B135	411555	479-1503	35 CPM Mainframe with Printer/Scanner Option	RICOH Aficio 2035eSP Savin 4035Esp Gestetner DSm635sp Lanier LD135 SP
B138	411557	479-1504	45 CPM Mainframe with Printer/Scanner Option	RICOH Aficio 2045eSP Savin 4045Esp Gestetner DSm645sp Lanier LD145 SP
B135	-	479-1507	35 CPM Mainframe with Printer/Scanner/Fax Option	Lanier LD135 SPF
B138	-	479-1508	45 CPM Mainframe with Printer/Scanner/Fax Option	Lanier LD145 SPF
GSA Machines				
B135	411531	-	35 CPM Mainframe	RICOH Aficio 2035eG Savin 4135eG Gestetner DSm635G
B138	411537	-	45 CPM Mainframe	RICOH Aficio 2045eG Savin 4145eG Gestetner DSm645G

Product Order Numbers Cont.

Product Code	EDP Code	Lanier ID	Item	Model Name
B541	411330	-	ARDF	DF76
B545	411563	479-1440	Multi Tray Finisher	SR880
B546	411334	479-1441	Booklet Finisher	SR890
B408	410972	479-1333	1000 Sheet Finisher	SR790
B542	411336	479-1442	Paper Tray Unit (Paper Bank)	PS530
B543	411339	481-0660	LCT	RT45
B544	411342	481-0661	1 Bin Tray	PT330
B538	411345	481-0662	Bridge Unit	Type 2045 Bridge Unit
B653	411848	481-0778	Fax Option	Type 2045e Fax Option
B591	411352	481-0664	G3 Fax Option	Type 2045 G3 Interface Unit
G354	411376	481-0668	PostScript 3	Type 2045 PostScript 3 Unit
B654	001896MIU	481-0779	Printer/Scanner Kit	Type 2045e Printer/Scanner Unit
*	001179MIU	-	128MB Memory	128MB Memory Type-C
-	400571	-	Platen Cover	Type 3800 Platen Cover
-	410124	481-0103	Hand Set	Hand Set
B377	410785	481-0319	2/3 Hole Punch Kit	Type 1045 Punch Kit
-	001342MIU	481-0174	32MB Fax SAF Memory	32MB Memory Type B
G336	400745	481-0483	IEEE 1394 I/F	IEEE 1394 I/F
B515	405412	216-7044	IEEE 802.11b Wireless I/F	Type B IEEE 802.1b LAN Kit
-	410126	481-0105	Key Counter Bracket	Type H Key Counter Bracket
-	410284	481-0161	Fax JBIG / Function Upgrade	Type 185 Fax Function Upgrade
-	334049	491-0245	Fax Stamp	Type 30 Fax Marker
-	410837	481-0428	User Account Enhancement Unit	Type A User Account Enhancement Unit
G354-04	411377	481-0742	Bluetooth Wireless I/F	Type 2045 Bluetooth
B525-01	411237	481-0561	USB 2.0	USB I/F
-	TBA	TBA	Data Overwrite Security Unit	Data Overwrite Security Unit Type A (Erasable HDD)
B519	TBA	TBA	File Format Converter	File Format Converter Type A
-	411491	481-0734	Cabinet Stand	Cabinet Stand Type FAC25

* The Printer/Scanner Kit includes the Printer/Scanner Option, NIB and 128MB memory DIMM.

Supply Order Numbers / Yields

Item	EDP Code	Name	Target Yield
Gestetner DMs635 / DMs645			
Toner	888185	Gestetner Toner 3532/4532	30K
Developer	888191	Developer DD10 BLK	300K
Staple Set Cartridge (SR790/SR880)	410805	Staple CSC760A	5K x 1/carton
Staple Refill Cartridge (SR790/SR880)	410806	Staple Refill CSC761B	5K x 3/carton
Staple Set Cartridge for normal staple (SR890)	209025	Staple Cartridge SC1035	5K x 5/carton
Staple Set Cartridge for saddle stitch (SR890)	410598	Staple CSC750	2K x 4/carton

Item	Lanier ID	Name	Target Yield
Lanier LD135 / LD145			
Toner (single bottle)	480-0157	Black Toner for LD135/LD145	30K
Toner (full carton)	717-0154	Black Toner for LD135/LD145	30K
Toner (2 pack)	717-0155	Black Toner for LD135/LD145	30K
Developer	480-0158	Black Developer for LD134/LD145	300K
Staples for SR790 & SR880 Finishers	480-0062	SC645 Staple Cartridge for SR790/SR880 - Type K	5K x 3/carton
Staple Cassette for SR790 & SR880 Finishers	480-0063	CS645 Staple Cassette for SR790 & SR880 – Type K	Cassette + 5000 staples
Staple Cartridge for normal staple SR890	117-0233	SC20 Saple Cartridger for SR890 Booklet Maker – Type E	2K x 3/carton
Staple Cartridge for normal staple SR890 refill	117-0232	SC85 Staple Cartrigdge for SR890 Booklet Maker type F	5K x 3/carton
Staple Set Cartridge for Saddle Stitch (SR890)	C2080-7616	Type J Cassette for SR890 (holds SC85 refills)	1 empty cassette for SC85 refill

Item	EDP Code	Name	Target Yield
Ricoh Aficio 2035e / 2045e			
Toner	888181	Ricoh Toner Type 3110D Black	30K
Developer	888190	Ricoh Developer Type 26 Black	300K
Staple Set Cartridge (SR790/SR880)	410801	Ricoh Staple Type K	5K x 1/carton
Staple Refill Cartridge (SR790/SR880)	410802	Ricoh Refill Staple Type K	5K x 3/carton
Staple Set Cartridge for saddle stitch (SR890)	317927	Ricoh Staple Type E	2K x 4/carton
Staple Set Cartridge for normal staple (SR890)	410597	Ricoh Staple Type J	5K x 5/carton

Supply Order Numbers / Yields (continued)

Item	EDP Code	Name	Target Yield
Savin 4035e / 4045e			
Toner	888187	Savin Toner Type 3545 Black	30K
Developer	888192	Savin Developer Type 3545 Black	300K
Staple Set Cartridge (SR790/SR880)	410803	Savin Staple Type K	5K x 1/carton
Staple Refill Cartridge (SR790/SR880)	410804	Savin Staple Refill Type K	5K x 3/carton
Staple Set Cartridge for normal staple (SR890)	209027	Savin Staple Type 6	5K x 5/carton
Staple Set Cartridge for saddle stitch (SR890)	410599	Savin Staple Type J	2K x 4/carton

Target Reliability

	B135	B138
ACV	10K/month	20K/month
Max Copy Volume	80K/month	100K/month
PM Interval	150K	150K
Duty Cycle	200K/month	200K/month

Initial Recommend Service Parts

* Refer to PM Table for additional initial recommended part numbers.

Part Number	Description	Quantity	Remarks
A2309510	OPC Drum	1	150K
G0654106	Fusing Thermostat	2	Replace as needed
AX430090	Fusing Lamp 550W	1	Replace as needed
AX440173	Fusing Lamp 650W	1	Replace as needed
B0825155	IOB PCB	1	Replace as needed
AZ320124	CBT Power Pack	1	Replace as needed
AZ230109	Power Supply Unit	1	Replace as needed
B1385065	BICU PCB	1	Replace as needed
B5145960	HDD	1	Replace as needed
B1385101	Controller PCB (B135)	1	Replace as needed
B1385102	Controller PCB (B138)	1	Replace as needed
PMB082150K	PM Kit	1	150K

Firmware Structure

PCMCIA cards will be used to upgrade the B135/B138 Firmware (common with A232/A284/B004/B079)

Firmware Card	Firmware
Controller	Controller Firmware x 2 cards
BICU	BICU Firmware
MFP	Printer Scanner
LCDC	Operation Panel
Fax	FCU Firmware Fax Application Firmware
Net	Network Support Firmware Web Support Firmware Network DocBox Firmware Web Document Box Firmware
Language 1	Optional Operation Panel Languages
Language 2	Additional Operation Panel Languages
PS3	PostScript 3 Firmware

Branding

Branding is required as the machines are shipped as a generic version.
Ricoh version machines: You must adhere the model label (provided) to the front cover.
Savin/Gestetner/Lanier: You must adhere the model label (provided) to the front cover and set the Plug and Play name with SP 5-907.

Revisions:
V1.0 – Initial release.
V2.0 – Fax Option EDP Code correction on page 12.
V3.0 – Part # for PM Kit corrected, Page 14.
V3.1 – Minior correction to product code in Product Concept, Page 1.
V3.2 – Fax Option EDP Code correction on page 12.
V3.3 – Printer/Scanner Option EDP Code correction on page 12.